

**Executive Order VR-201-C
Healy Phase II EVR System
Not Including ISD**

Exhibit 3

Manufacturing Performance Standards and Specifications

The Healy Phase II EVR System and all components shall be manufactured in compliance with the performance standards and specifications in CP-201 (amended May 25, 2006), as well as the requirements specified in this Executive Order. All components (Exhibit 1) shall be manufactured as certified; no change to the equipment, parts, design, materials or manufacturing process shall be made unless approved in writing by the Executive Officer or Executive Officer delegate. Unless specified in Exhibit 2 or in the ***ARB Approved Installation, Operation and Maintenance Manual***, the requirements of this section apply to the manufacturing process and are not appropriate for determining the compliance status of a gasoline dispensing facility.

1. NOZZLES

Every nozzle shall be tested at the factory. Every nozzle shall have affixed to it a card or label stating the performance specifications listed below, and a statement that the nozzle was tested to, and met, the following specifications.

- a. The nozzle vapor valve leak rate shall not exceed 0.038 cubic feet per hour (CFH) at a pressure of +2 inches H₂O when tested in accordance with the latest version of TP-201.2B.
- b. The nozzle vapor valve leak rate shall not exceed 0.10 CFH at a vacuum of -100 inches H₂O when tested in accordance with the latest version of TP-201.2B.
- c. The nozzle automatic shut off feature is tested at all service clip settings (either two or three) as well as handheld in accordance with Under Writers Laboratories (UL) Standard 842.
- d. The nozzle is tested in accordance with the California Department of Food and Agriculture Division of Measurement Standards Article 2 (DMS 6-6-97).

- e. The nozzle is manufactured to the specifications that passed all tests conducted during the ARB certification for the following:
 - TP-201.2C - Spillage from Phase II Systems
 - TP-201.2D - Post Fueling Drips From Nozzles
 - TP-201.2E - Gasoline Liquid Retention in Nozzles and Hoses
- f. The nozzle is manufactured to meet the Vapor to Liquid Ratio as specified in Exhibit 2.
- g. The terminal end of each nozzle shall be manufactured in accordance with the specifications referenced in Section 4.7.3 of CP-201.

2. INVERTED COAXIAL HOSES

- a. Every inverted coaxial hose is tested for continuity and pressure tests in accordance with UL Standard 330.

3. HOSE ADAPTORS

- a. Every hose adaptor is tested for continuity and pressure tests in accordance with UL Standard 567.

4. RECONNECTABLE BREAKAWAY COUPLINGS

- a. Every reconnectable breakaway coupling is tested for continuity and pressure tests in accordance with UL Standard 567.

5. FLOW LIMITERS

- a. Every flow limiter is tested to 50 pounds per square inch (psi) liquid pressure to verify maximum gasoline flow rate limited to 10.0 gpm.

6. VP1000 VACUUM PUMPS

- a. Every vacuum pump is pressure tested in accordance with UL Standard 79.
- b. Every vacuum pump is manufactured to the exact specifications that passed all tests conducted during the ARB certification.
- c. Every MC100 control module is tested in the factory to verify proper operation.

7. TANK PRESSURE MANAGEMENT SYSTEM

- a. The Clean Air Separator tank is designed, constructed, tested, inspected and stamped per the American Society of Mechanical Engineers (ASME) Code Section VIII, Division 1, 2001 Edition, 2003 Addendum.
- b. Every Clean Air Separator bladder is performance and pressure tested using the **Clean Air Separator Performance Test** to ensure its integrity.

8. PRESSURE/VACUUM (P/V) VENT VALVES FOR UST VENT PIPES

- a. Every P/V vent valve is performance tested at the factory for cracking pressure and leak rate at each specified pressure setting and shall be done in accordance with TP-201.1E, *Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves*. Each P/V vent valve shall be shipped with a card or label stating the performance specifications listed below, and a statement that the valve was tested to, and met, these specifications.
 - 1. The pressure settings for the P/V vent valve
 - Positive pressure setting of + 2.5 to + 6.0 inches H₂O.
 - Negative pressure setting of - 6.0 to - 10.0 inches H₂O.
 - 2. The leak rate for each P/V vent valve, including connections, shall not exceed:
 - 0.05 CFH at + 2.0 inches H₂O.
 - 0.21 CFH at - 4.0 inches H₂O.
- b. Every P/V vent valve shall have permanently affixed to it a yellow or gold label with black lettering listing the positive and negative pressure settings specified above. The lettering of the label shall be a minimum font size of 20.